

PERFORMANCE WORK
STATEMENT

ENVIRONMENTAL SERVICES
CONTRACT

For

DEFENSE FUEL SUPPORT POINTS (DFSPs) VERONA, NEW YORK
and
MELVILLE, RHODE ISLAND

BACKGROUND: The Defense Logistics Agency - Energy (DLA Energy) administers an active military fuel storage and transportation facility known as Defense Fuel Support Point (DFSP) Verona, NY. DFSP Melville, RI is closed and site assessment and cleanup actions have been conducted, but there may be further site assessment and remediation work to be done. The facilities consist of tank farms, pipelines, fuel piers, and tank truck loading racks. A brief description of the facilities follows this statement of work. Active facilities receive or have received JP-8, JP-5, F-76 or DFM from refineries by pipeline, barge, tanker, or tank truck. The fuel is or was then distributed to authorized users by pipeline, tank truck, or barge. Fuel spills related to these storage and transportation activities occasionally occurred due to accidents or equipment/material failure. At active DFSPs such spills and leaks require a rapid response to minimize contamination of the soil, air, surface water, and groundwater environment.

SCOPE: As ordered by the Contracting Officer, the environmental service contractor shall conduct Environmental Assessments, Environmental Remediations, and Emergency Responses at the specified facilities. Based on previous experience, DLA Energy has compiled a list of services that might be needed to respond to an environmental service requirement. Additional control, assessment, or remediation techniques recommended by the contractor may be approved for use on a specific response if the contractor can satisfactorily demonstrate to DLA Energy that the techniques are viable for controlling fuel contamination, cost effective, available "off-the-shelf", and are acceptable to state and federal authorities.

a. **ASSESSMENT:** During the assessment phase of work the contractor shall evaluate the lateral and vertical extent of contaminants in the subsurface, assess the nature and extent of free product that may be present, initiate free product recovery, assess the nature and lateral extent of groundwater and soil contamination, evaluate the geologic and hydro-geologic characteristics of the subsurface, and initiate a risk assessment. Risk Assessment shall provide sufficient information to be used in a Remedial Action Plan.

Typical Activities:

- Conduct soil and groundwater sampling utilizing conventional boring or direct push technology, classification and analysis (field screening, soil/gas survey).
- Install observation and monitoring wells.
- Perform soil and groundwater sampling and analyses.
- Perform free fuel sampling and analyses including forensic testing.
- Determine soil fuel contamination and mass.
- Determine free fuel plume size and mass.
- Determine dissolved fuel plume size and mass.
- Perform pump test and analyze data.
- Estimate the hydraulic conductivity (grain size, uniformity coefficient of the sediments, and porosity measurements).
- Initiate interim free product recovery.
- Prepare summary reports of activities.
- Present findings to DLA Energy representatives, regulatory agencies, and the public.
- Conduct risk assessment.
- Conduct treatability testing.
- Develop a Remedial Action Plan.

b. **EMERGENCY RESPONSE:** The contractor shall immediately respond when notified by DLA that there is a fuel release or a discovery of contamination that requires immediate emergency services to mitigate the risk to human health and the environment. The emergency environmental response services include on-site observation by the project manager designated by the contract.

- At operational facilities the contractor shall participate in the emergency response process as a technical observer/advisor to the DLA project manager in order to determine the environmental assessment and geotechnical restoration actions that are necessary subsequent to the completion of the emergency response cleanup. The emergency cleanup services are performed by equipment and personnel designated by other resources not associated with this contract. DLA will direct the follow-on assessment and environmental restoration services to be performed under this contract after the emergency

response is completed.

- At closed facilities the project manager designated by the contract shall be directed by DLA to immediately respond to visually assess the situation to determine the immediate resources necessary to mitigate the risk to human health and the environment. DLA will then direct what emergency response actions, follow-on assessment, and environmental restoration services are to be performed under this contract.

c. **REMEDIATION:** During the remediation phase of work the contractor shall install a fully functional, safe and reliable remediation system to clean up the site. The contractor shall conduct concurrent engineering rather than sequential engineering. System development documents shall be produced to industry standards. System drawings shall be created with components which could be site adapted for use on future remediation projects. The contractor is encouraged to use “cut and paste” from previously used systems in order to minimize the effort and cost to develop a remediation system. Prepared system documents shall include text to advance the project into the next stage so that documents can be used “as-is” to procure the system without procurement specs.

Typical Activities:

- Develop system drawings.
- Obtain Regulatory Agency approval.
- Procure system components.
- Construct the remediation system.
- Prepare O&M manual.
- Perform start up.
- Operate and maintain the system.

TASK 1. WORK PLAN. Contractor shall develop a work plan to conduct an environmental site investigation or remediation. The purpose of the plan is to list required tasks for a specific site assessment and/or remediation. The plan shall be developed under the direct supervision of a licensed State hydro-geologist or geologist with extensive verifiable experience in hydrogeology in the State in which the work is to be performed. Upon approval of the work plan by the Contracting Officer and subject to the approval of the State or local regulatory agencies, the Contractor will implement the work plan. Proposals shall be based on the assumption that 30 work hours will be required to prepare a completed work plan. The work includes preparation and electronic submittal to the Contracting Officer of one draft copy of the work plan. Finalize the plan after receipt of review comments and approval by the Contracting Officer and submit one (1) electronic copy, one (1) hard copy and one (1) CD-R media copy to the state regulatory authority and one (1) CD-R media copy to the Contracting Officer. The work includes uploading of reports to any State web enabled (Geotracker or SMARTS) database.

TASK 2. SOIL/GAS SURVEY. Contractor shall conduct a soil/gas survey in the area of concern to obtain information that will be useful in locating new monitoring wells and to be protective of potential vapor intrusion. Assume probe depths of 4 feet and 14 feet with one unit of soil gas work equal to ten (10) soil/gas points. Offeror shall explain in detail any additional assumptions made in its proposal.

TASK 3. GEOPHYSICAL SURVEY. Contractor shall conduct a geophysical survey using ground penetrating radar to locate underground tanks, buried pipelines, or other obstructions. Assume one unit of geophysical survey work is equal to 10,000 linear feet. This task includes preparation and furnishing to the Contracting Officer two (2) CD-R media of a report explaining how the survey was conducted and detailing survey results.

TASK 4. SOIL BORINGS. Contractor shall install borings using a hollow stem auger. Continuous soil samples shall be collected, employing a split spoon sampler. Samples shall be screened by head space analysis using an Organic Vapor Analyzer (OVA) or comparable analyzer. Drilling shall be in accordance with State Regulations. A geologist or hydro-geologist, working under the direct supervision of a licensed State geologist, shall be on-site throughout the drilling phase to classify soil conditions encountered, oversee boring installation, prepare boring logs, and monitor grouting of borings. Soil produced in drilling of borings shall be screened, and contaminated soil shall be placed on and covered with PVC sheeting. Non-contaminated soil shall be spread in the vicinity of the work. Disposal of contaminated soil will be authorized under Task 15. Soil handling procedures outlined under this Task are also applicable to all other Tasks where potentially contaminated soil is generated in the form of cuttings or excavation. Analytical laboratory testing of soil samples obtained will be ordered under Task 9.

TASK 5. MONITORING WELLS. Contractor shall install 2” or 4” monitoring wells, as ordered. The monitoring wells shall be installed in accordance with procedures accepted by the State in which the work is to be performed and the U.S. Environmental Protection Agency (USEPA). Continuous samples shall be collected using a clean split spoon sampler. The headspace of all soil samples shall be analyzed for volatile organic vapors using an OVA or equal. Well construction shall be performed by personnel who are qualified in the locality in which the work is performed. A geologist or a hydro-geologist, working under the direct supervision of a licensed State geologist, shall be present as required in Task 4. Closing and decommissioning of existing monitoring wells may also be ordered under this Task and this work shall be conducted in full compliance with applicable regulatory agency requirements as approved by the Contracting Officer.

TASK 6. WELL DEVELOPMENT. Wells shall be developed to restore the natural permeability of the surrounding formation adjacent to the borehole. Non-contaminated water shall be disposed of on site in the vicinity of the work. Contaminated water will be disposed of utilizing existing on site groundwater treatment systems if appropriate. In the event contaminated water must be disposed of off-site, authorization will be provided under Task 15. The work shall include obtaining a water sample from the well after development, but analytical testing shall be ordered under Task 9. Water handling procedures outlined under this Task shall also be applicable for all other Tasks where water is produced.

TASK 7. DIRECT PUSH TESTING. Contractor shall use direct push methods for screening and/or obtaining groundwater and soil samples for analytical testing. Soil samples shall be screened by head space analysis using an OVA. Test probes shall be steam cleaned or otherwise effectively decontaminated after each use. The work includes grouting of bore holes in accordance with regulatory agency procedures. A geologist or hydrogeologist, working under the direct supervision of a registered geologist, shall be on site throughout the Geoprobe work. One unit of direct push testing consists of five (5) individual probes. Assume a maximum probe depth of fifty (50) feet.

TASK 8. SOIL BORING / MONITORING WELL SURVEY. Following completion of the installation of soil borings or monitoring wells, the locations will be surveyed for elevation and plan location with respect to existing site facilities and the State plane coordinate system. The ground surface elevation will be recorded for each boring / well location. The elevation will utilize the same datum as the existing survey datum or to another datum suitable for the site. A State licensed surveyor will perform the work. One unit of surveying consists of locating and plotting 10 locations.

TASK 9. ANALYTICAL TESTING. Soil Samples collected under Task 4, 5, and 7 and groundwater samples collected under Tasks 6 and 7 shall be tested utilizing the test methods listed below. The types and number of tests to be performed for all Tasks will be determined at the time the work is ordered. In addition to providing "hard copies" of all analytical results, electronic deliverables of results must also be included in the price. Proposals shall state the standard turnaround time (business days) to obtain results and surcharges for 72 hour and 24 hour expedited turnaround. Preparation costs (extractions, dissolution, filtering, etc.) for samples requiring preparation prior to analysis and disposal of excess sample media shall be included in the price.

6010 (Individual metal)	8260 (BTEX/MTBE/Naphthalene)	624 (Purgeables)
6020 (Individual metal)	8270 (Full list Semi-Volatile Organic Compounds)	625 (Semivolatile Organic Compounds)
7470 (Mercury)	8270-SIM (Polyaromatic Hydrocarbons)	TCLP Metals
8015 (TPH as JP5 [C9-C16] w/silica gel cleanup)	8310 (Polyaromatic Hydrocarbons)	9045 (pH)
8015 (TPH as Gasoline [C6-12])	8440 (Total Petroleum Hydrocarbons)	1010 (Ignitability)
8021 (Aromatic Volatile Organic Compound's)	601 (Purgeable Halocarbons)	CCR Title 22 Metals (6010/7470)
8041 (Phenols)	602 (Purgeable Aromatics)	9012 or SM 4500-CN or 335.4 (Cyanide)
8081 (Organochlorine Pesticides)	604 (Phenols)	9023 (Total Organic Halides)
8121 (Chlorinated Hydrocarbons)	608 (Organochlorine Pesticides and PCB's)	9030 or SM 4500-S (Sulfide)
8151 (Chlorinated Herbicides)	610 (Polynuclear Aromatic Hydrocarbons)	300.0 (Chloride, Sulfate, Nitrate)
8260 (Full List Volatile Organic Compounds)	612 (Chlorinated Hydrocarbons)	SM 2320 (Alkalinity)

TASK 10. RECOVERY WELLS. In the event free product is detected in any boring or monitoring well, a 6" diameter product recovery well shall be installed. The work shall include installation of the 6" diameter well and installation of a water table depression and free product recovery pump system. The proposal shall also include the cost to convert an existing 4" monitoring well to a recovery well by installing a water table depression and free product recovery pump system. Pump system shall be rated 2-10 GPM suitable for 50 ft well. The work is to include all electrical and plumbing requirements within the well up to the top of the well casing. The scope of work shall include furnishing and installing a 150-gallon tank for product recovery. Provisions for electrical power and water handling will be ordered under other appropriate Tasks depending on site specific conditions. Monthly operation and maintenance of the recovery well system shall be identified separately in the proposal and shall include all efforts required to keep the pump system operational.

TASK 11. PUMP TEST. Perform a pump test to establish optimum pumping rate and to evaluate the safe yield of the pumping well. Measure pre-test fluctuations of the groundwater levels in the production and observation wells. The pump test shall be conducted using a 4" diameter production well and two 2" diameter monitoring wells adjacent to the production well. Well installation costs will be as provided in Task 5. Contractor shall pump from the production well and observe water levels in the observation wells during the entire duration of pumping and after pumping is completed until at least 90% of the initial static water level is recovered. Pumping shall be performed for a minimum of 8 hours. Assume discharge water can be disposed of without any special treatment. Contractor shall interpret, tabulate, and provide graphical representation of the results. Finally, Contractor shall conduct a simulation of groundwater recovery through computer modeling to determine the optimum groundwater pumping rate for remediation. The work shall include all necessary equipment and personnel to conduct the test and analyze results.

TASK 12. MONITORING. This task is not applicable for this solicitation.

TASK 13. REPORTS. No later than 60 days after completion of any field work and/or receipt of analytical results, the Contractor shall prepare and submit one (1) draft electronic copy of a report of findings to the Contracting Officer for review. Finalize the report after receipt of review comments and submit one (1) electronic copy, one (1) hard copy and one (1) CD-R media copy to the state regulatory authority and one (1) CD-R media copy to the Contracting Officer. The work includes uploading of reports to any State web enabled (Geotracker or SMARTS) database. Reports shall include a description of site conditions and the condition of the soils, surface water, groundwater and any remediation that was accomplished. Specific enclosures would typically include the following where applicable:

- a. Site location map.
- b. The geologic description and classification of subsurface soils.
- c. Results of any soil gas and geophysical surveys.
- d. Typical geological cross sections.
- e. Monitoring well boring logs.
- f. Well locations and elevation survey.
- g. Groundwater flow map.
- h. Sampling QA/QC information.
- i. Laboratory analytical results for soil and water samples.
- j. Description of any remedial action that was completed.
- k. Recommendations for future activities with estimated costs.

TASK 14. MISCELLANEOUS SERVICES. When authorized by the Contracting Officer, the Contractor shall provide environmental services not specified elsewhere in this contract. The Government reserves the right to accomplish this work with its own forces or by other contracts when the Contracting Officer determines that it is in the best interest of the Government. Unit prices offered for work accomplished under TASK 14 shall be for the prime contractors and any sub-contractors allowable, allocable, and reasonable direct costs pursuant to FAR Section 31 plus any associated indirect costs allowable under the provisions of FAR Section 31.

TASK 15. OTHER DIRECT COSTS (COST REIMBURSEMENT). In the event the Government requires services, materials, or supplies to be provided under this contract the cost of which has not been provided for under any other contract line item, such services, materials, and supplies will be furnished under Task 15. This is the only Task under this contract for which the contractor will be entitled to mark- ups for overhead and profit (OH&P) to be added to the direct cost of the work since the prices offered on all other TASKS are to include OH&P. Offerors are required to provide the total percentage of mark- up to be added to their direct cost

for work ordered under CLIN 0002, Reference Number 0126. The Government estimate of cost of services that may be ordered under TASK 15 is shown under Reference Number 00126 in Attachment 3 Price Proposal Worksheets of the solicitation.

TASK 16. BACKGROUND REVIEW. The Contractor shall be responsible for understanding the existing site conditions at the DFSP's. It is critical that any existing remediation systems be kept fully operational, that mandated monitoring programs be maintained, and that the Contractor be familiar with site conditions and operations in order to effectively represent the Government in meetings with Regulators, the public, or other Government agencies. Existing reports and studies are available for review on the State Geotracker web site.

SPECIAL NOTES:

- a. Normal terminal operating hours are from 7:00 AM to 4:00 PM Monday thru Friday except Federal holidays. The Contractor will confine his operations to these hours except under emergency conditions when there will be no restrictions on-site access. The contractor, under special circumstances and approval by the Contracting Officer, may be required to work at night along any of the off-site pipelines (e.g. to minimize the adverse impact to traffic on public roads).
- b. The Contractor will familiarize all of his on-site personnel with terminal safety regulations and insure compliance with them. Electrical equipment used within storage tank dike areas will be suitable for operation in a Class 1 Division 1 Group D area as defined by the National Electrical Code. Internal combustion engines will be equipped with spark arrestors on exhausts. Atmosphere in the work area will be monitored with an explosimeter. All work will be halted whenever readings exceed 25% of the lower explosive limit.
- c. All non-usable surplus material and debris resulting from work under this contract shall be removed from the site by the Contractor. The Contractor shall be responsible for transportation and disposal of nonhazardous debris, rubbish, and non-usable material resulting from work under this contract. Nonhazardous waste must be disposed of by the Contractor off Government property except for nonhazardous soil cuttings from boring and monitoring well construction and nonhazardous groundwater from monitoring well development, which may be spread on-site adjacent to the location at which they were generated.
- d. The Contractor may be tasked to properly dispose of hazardous soil cuttings and/or water generated as a result of work under this contract. Disposal shall include packaging, labeling, temporary storage, and transportation in accordance with all applicable federal, state, and local statutes and regulations. Manifests for transportation and disposal of the waste shall be prepared by the Contractor and will be signed by a Government representative. A copy of the manifest shall be provided to the Contracting Officer. Reimbursement for the disposal of hazardous waste shall be authorized under CLIN 0002, Reference Number 0126.
- e. Proposals shall be based on the assumption that all work areas are accessible to rubber tire mounted equipment. Additional compensation will be provided under CLIN 0002, Reference Number 0126 for access to those areas requiring tracked vehicle or other specialized equipment.
- f. The terminal superintendent, at the one active facilities, will assist the contractor in locating sub-surface utilities. In addition, the contractor shall make use of all available resources to avoid damaging utilities to include checking "as- built" drawings, utility locating services (Miss Utility, Underground service Alert, etc.), and electronic pipe/cable locators.
- g. Prices proposed in DLA Energy Contract provision B-0001-B35, SERVICES TO BE FURNISHED AND PRICES (DLA Energy APR 2003) must be based on descriptions of tasks as contained in the Performance Work Statement.
- h. **CONTRACTOR MANPOWER REPORTING.** The contractor shall report all contractor labor hours (including subcontractor labor hours) required for performance of services provided under this contract for the Defense Logistics Agency via a secure data collection site. The contractor is required to completely fill in all required data fields using the following web address: <http://www.ecrnra.mil/>.

Reporting inputs will be for labor executed during the period of performance during each Government fiscal year (FY), which runs October 1 through September 30. While inputs may be reported any time during the FY, all data shall be reported no later than October 31 of each calendar year, beginning with 2013. Contractors may direct questions to the help desk at help desk at: <http://www.ecmra.mil/>.
- i. Contractor shall be in compliance with the approved standards for assessment, remediations and emergency responses as contained in the approved work plans. The contractor shall be measured on submitting reports and completion of work that

satisfies deadlines contained within the PWS and implemented by task orders. These deadlines will be established by DLA Energy based upon coordination with the State of Rhode Island and New York Environmental regulators. Method of measurement is via direct observation and review of records on a recurring basis. The only acceptable performance level for operations is 100% conformance unless it can be shown that non-compliance is due to acts of God, natural disaster, etc. Methods of measurement include customer comments, observation, reviews of reports/records, and the submission of Contract Deficiency Reports (CDRs). Contract performance will be reflected on the Contractor Performance Assessment Reporting System (CPARS).

j. To assure continuity between the Facility, the Contractor's home office, and DLA Energy, the Contractor shall employ during the life of this contract a Program Manager who can make decisions concerning this contract: who has a complete understanding of the terms and conditions of this contract; and who has experience in the environmental assessment, environmental remediation, and emergency response.

ENVIRONMENTAL RESPONSE CONTRACT

FACILITY DESCRIPTIONS

DFSP VERONA, NY

ADDRESS: 5449 West Main Street, Verona, NY 13478-9676

TYPE(S) OF FUEL: JP-8 (Currently Stored)

STORAGE CAPACITY: 12 million gallons, Aboveground Steel Tanks

SIZE OF FACILITY: 14 fenced and 21 non-fenced (Acres) RECEIPT

MODES: Pipeline

SHIPMENT MODES: Tank Truck

Note: This is an active DFSP

DFSP MELVILLE, RI

ADDRESS: DFSP Melville Terminal, Portsmouth, RI 02871

TYPE(S) OF FUEL: JP-5, JP-8, F-76, Lube Oil

STORAGE CAPACITY: 81,400 Bbl's SIZE OF

FACILITY: 179 Acres RECEIPT MODES: Barge,

Tanker SHIPMENT MODES: Tank Truck